

IN THE CLAIMS

1. (Currently amended) A power converter comprising: an inductor and a main switch having a main current path, the inductor and the main current path being arranged in series for receiving a DC-input voltage, a measuring circuit coupled to a junction of the inductor and the main current path to obtain a measuring signal being indicative of a voltage across the main current path, and a control circuit for controlling on-periods and/or off-periods of the main switch to stabilize an output voltage supplied to a load, and having an input for receiving the measuring signal to protect the main switch against an overvoltage.
2. (Previously presented) A power converter as claimed in claim 1, wherein the measuring circuit comprises a series arrangement of a diode and a capacitor, the series arrangement of the diode and the capacitor being coupled in parallel with the inductor, the input of the control circuit being coupled to a junction of the series arrangement of the diode and the capacitor.
3. (Previously presented) A power converter as claimed in claim 2, wherein the diode is coupled to the junction of the main switch and the inductor, the diode being poled to be able to conduct during the off-period of the main switch.
4. (Previously presented) A power converter as claimed in claim 3, wherein the measuring circuit comprises a resistor coupled across the capacitor.
5. (Previously presented) A power converter as claimed in claim 2, wherein the measuring circuit comprises a resistor divider comprising a first resistor and a second resistor, the first resistor being coupled between the junction of the capacitor and the diode and the input of the control circuit, the second resistor being coupled between the input of the control circuit and a fixed potential.
6. (Previously presented) A power converter as claimed in claim 5, wherein the control

circuit comprises: a series arrangement of a further switch and a current-to-voltage converter, the series arrangement being coupled between the input and a reference potential, a first comparator for comparing a voltage at the input with a first reference voltage when the further switch is open, and a second comparator for comparing a voltage at an output of the current to voltage converter with a second reference potential when the further switch is closed.

7. (Previously presented) A power converter as claimed in claim 1, wherein the control circuit comprises an comparator for comparing the measuring signal with a reference signal to halt the operation of the power converter when the measuring signal crosses the reference signal indicating that a voltage across the main switch is higher than a particular value.
8. (Previously presented) A power converter as claimed in claim 1, wherein the diode and the capacitor are dimensioned to operate as a peak-limiter.
9. (Previously presented) An apparatus comprising the power converter as claimed in claim 1.
10. (Previously presented) An apparatus as claimed in claim 9, wherein the apparatus comprises a processing circuit for processing an input signal into an output signal to be made audible via a sound transducer and/or to be displayed on a display device and the power converter as claimed in claim 1, wherein the load comprises the processing circuit.
11. (Previously presented) A control circuit for use in the power converter claim 1.